

I claim:

1. A transformer comprising:

a foil winding having an end portion including one or more  
5 layers, at least one of said layers being divided to form a  
plurality of strips having conductive opposite sides;

wherein at least one strip is folded and at least one other  
strip is folded over said at least one strip to form a conductive  
stack portion; and

10 wherein said conductive stack portion extends from said  
transformer and is secured to a mounting board.

2. The transformer of claim 1, wherein said conductive stack  
portion is secured to the mounting board by inserting an end of  
15 the conductive stack portion through a hole in the mounting board  
and at least two of said plurality of strips are bent in opposing  
directions to create a gap therebetween to secure the conductive  
stack portion to the mounting board.

20 3. The transformer of claim 2, wherein said end of the conductive  
stack portion is trimmed by removing a part thereof to facilitate  
insertion into said hole in the mounting board.

4. The transformer of claim 3, wherein said end of the conductive  
25 stack portion is trimmed into at least two leg portions.

5. The transformer of claim 1, further comprising a bobbin having a discontinuous flange with at least one section that is orthogonal to a main axis of the bobbin.

5 6. The transformer of claim 5, wherein said discontinuous flange further comprises at least one section that is parallel to the main axis of the bobbin.

7. A coil comprising:

10 a foil winding having an end portion including one or more layers, at least one of said layers being divided to form a plurality of strips having conductive opposite sides;

wherein at least one strip is folded and at least one other strip is folded over said at least one strip to form a conductive  
15 stack portion; and

wherein said conductive stack portion extends from the coil and is secured to a mounting board.

8. The coil of claim 7, wherein said conductive stack portion is  
20 secured to said mounting board by inserting an end of the conductive stack portion through a hole in the mounting board and at least two of said strips are bent in opposing directions to create a gap therebetween to secure the conductive stack portion to the mounting board.

25

9. The coil of claim 8, wherein said end of the conductive stack portion is trimmed by removing a part thereof to facilitate insertion into at least one hole in the mounting board.

5 10. The coil of claim 9, wherein said end of the conductive stack portion is trimmed into at least two leg portions.

11. The coil of claim 7, further comprising a bobbin having a discontinuous flange with at least one section that is orthogonal  
10 to a main axis of the bobbin.

12. The coil of claim 11, wherein said discontinuous flange further comprises at least one section that is parallel to the main axis of the bobbin.

15